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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS COMPRISING SILICONE-IN-WATER EMULSIONS AND FRAGRANCES AND HAIR CARE PREPARATIONS COMPRISING SUCH COMPOSITIONS

(57) Abstract: The present invention relates to compositions comprising i) a fragrance composition; and ii) a silicone-in-water emulsion comprising at least one surfactant, wherein the dispersed silicone has a viscosity of 100 million mm²s⁻¹ or more and a particle size of 2 µm or less. It also relates to hair care preparations comprising such compositions, which provide improved release of fragrance when applied to the hair and improved deposition of the fragrance on the hair. The invention is further related to methods of cleansing hair, which comprises applying a hair care preparation to the hair.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/00/03/28182

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K7/46 A61K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/062311 A (GIRBOUX ANNE-LISE ;MARTEAUX LEON ANDRE (BE); DOW CORNING SA (BE);) 15 August 2002 (2002-08-15) page 7, lines 31,32, paragraph 26; claim 1	1-7, 15-17
L	EP 0 874 017 A (DOW CORNING SA) 28 October 1998 (1998-10-28) page 5, line 50 page 6, line 3	1-7, 15-17
X	WO 01/058986 A (GIRBOUX ANNE LISE ;MARTEAUX LEON ANDRE (BE); DOW CORNING SA (BE)) 16 August 2001 (2001-08-16) page 11, lines 2-6,16,18-20; claim 1	1-7, 15-17, 21-23
A	US 2002/034490 A1 (MURRAY ANDREW MALCOLM ET AL) 21 March 2002 (2002-03-21) examples 1-5	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the International filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

A document member of the same patent family

Date of the actual completion of the International search

19 December 2003

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/28182

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7, 15-17, 21-23

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,15-17,21-23

a composition comprising:

i) a fragrance composition,

ii) a silicone-in-water emulsion comprising at least one surfactant, wherein the dispersed silicone has a viscosity of 100 millions mm²/s or more and a particle size of 2 μ m or less,
and its use (product Claims 1-7, 15-17 and method Claims 21-23).

2. claims: 8-14,18-20,24-26

a composition comprising:

i) a fragrance composition, comprising ingredients as defined in Claim 8,

ii) a silicone-in-water emulsion comprising at least one surfactant,
and its use (product Claims 8-14, 18-20 and method Claims 24-26).

INTERNATIONAL SEARCH REPORT

Information on patent family members

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